```
logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  MA.ENLSLFSDEPLFIVGRPVVTIFHNAQNLFSIIKLKIQETNTDYKEKEIIVAGYFPAVSEEALYRYTGQLKQHPKYGL   79
NTDB id 355 BSU 27480 NP 390625.1            MQQHPDQLKLEEEPYLKGTVNTVIYHNDTNLYTVLKVKVTETSEAIEDKAVSVTGYFPALQEEETYTFYGKIVTHPKFGL   80
consensus                                    ! ***  !  *!**** ! *   !*!!  !!****!*!* !!     *! * ! !!!!!* !!  ! * ! *  !!!*!!

logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  QFQAATFEKEIPATETGVVQYLSSDLFPGIGHRTAETIVQQLGADAIKTIIENPDVLDDVPRLTEDKKQTLRSVLEQNLG  159
NTDB id 355 BSU 27480 NP 390625.1            QFQAEHFKKEIPTTKEGIIQYLSSDLFEGIGKKTAEEIVKKLGDSAINKILADASVLYDVPRLSKKKADTLAGALQRHQG  160
consensus                                    !!!! *! !!!! !  !**!!!!!!!*!!!**!!! !!  !!  !!  !*  * !! !!!!!*  !  !!   !  * !

logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  LDRIMIQLNEWGFGAQIAVKIYQMYEGETLQVLQKNPYRLIEDIEGIGFQRADELGARLQITGNHPDRIKASILHLLNTA  239
NTDB id 355 BSU 27480 NP 390625.1            LEQIMISLNQFGFGPQLSMKIYQAYESETLEKIQENPYQLVKDVEGIGFGKADELGSRMGLSGNHPERVKAAILYTLETT  240
consensus                                    !* !!! !! *!!!*!* *!!!! !! !!!  *! !!! !* !*!!!!! *!!!!! !* **!!!!*!*!! !!* ! !

logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  SLSEGHVFLDAREILPASKAMLESSQS..CTIEYDDISQAIIELGENGKVCGEETRVYLPSLYYSEIGIASKITELAQKN  317
NTDB id 355 BSU 27480 NP 390625.1            CLSEGHTYIETEQLIIDTQSLLNQSAREGQRITEMDAANAIIALGENKDIVIEDGRCYFPSLFYAEQNVAKRVKHIASQT  320
consensus                                    *!!!!! ***   *** *  *!  !  *** !   !  *!!! !!!!  ** !* !*! !!!*! !  *! ** **!

logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  EEHSSFPSSEIRKVIGEAEERFGVTYADTQVKAIETAINSAVMILTGGPGTGKTTVVRGIVDVYAELHGLSLNPKDYAEK  397
NTDB id 355 BSU 27480 NP 390625.1            EYENQFPESEFLLALGELEERMDVQYAPSQKEAIQKALSSPMLLLTGGPGTGKTTVIRGIVELYGELHGVSLDPSAYK.K  399
consensus                                    ! *  !! !!    *!! !!!  ! !!**!  !!  !* !****!!!!!!!!!!!!*!!!!**!*!!!!*!! !  ! *!
```

```
logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  EEAFPIVLAAPTGRAAKRLSESTELPAMTIHRLLGFTGQEKEEDV.EREVMGRLIIVDEMSMVDTWLAHQLLRALNDDCQ  476
NTDB id 355 BSU 27480 NP 390625.1            DEAFPIVLAAPTGRAAKRMSESTGLPAVTIHRLLGWNGAEGFTHTEDQPIEGKLLIIDEASMLDIWLANHLFKAIPDHIQ  479
consensus                                    *!!!!!!!!!!!!!!!!!!*!!!!! !!!*!!!!!!!* ! !   * ** ** !*!*!*!! !!*! !!!**! *!**!**!

logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  VIFVGDQDQLPPVGPGQVLKDLLASKAIPTVELTDVYRQSEGSSIIQLAHEMKRGTVPQDLMVKTSDRSFIRATQDQIAD  556
NTDB id 355 BSU 27480 NP 390625.1            IIIVGDEDQLPSVGPGQVLRDLLASQVIPTVRLTDIYRQAEGSSIVELAHQMKNGLLPNNLTAPTKDRSFIRCGGSQIKE  559
consensus                                    *! !!! !!!!*!!!!!!!*!!!!!  !!!! !!!*!!! !!!!!* !!! !! ! *!* !  *! !!!!!!*   !! *
```

```
logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  VVGQVVKSAINKGFSIHDVQVLAPMYRGNAGIDAMNKMLQELLNPKKSQKTKEIAFGDTIYRIGDKVLQLVNQPNNNVFN  636
NTDB id 355 BSU 27480 NP 390625.1            VVEKVVANALKKGYTAKDIQVLAPMYRGKAGINELNVMLQDILNPPKE.KRRELKFGDVVYRTGDKILQLVNQPENNVFN  638
consensus                                    !!  !!  !* !!** *!*!!!!!!!!! !!!  *! !!!**!!!*! *! *!* !!! *!! !!!*!!!!!!! !!!!!

logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  GDMGEVISIVKAKETIEKTDLMVVSFDGIEVTYQKSDLNQVTLAYCCSIHKSQGSEFPMVIMPIVRGYSKMLRKNLLYTG  716
NTDB id 355 BSU 27480 NP 390625.1            GDIGEITSIFYAKENTEKEDMAVVSFDGNEMTFTKKDFNQFTHAYCCSIHKSQGSEFPIVVLPVVKGYYRMLRRNLLYTA  718
consensus                                    !!*!!* !!  !!!  !! !* !!!!!! !*!* ! ! !! !*!!!!!!!!!!!!!!!!*!**!*!*!! *!!!*!!!!!*

logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  ITRAKNFLILCGEPDTFVYGFQKTDDMKRHTSLVERLSLEETTEIKSLEEKNDTKSDPTEIKAIQSVEDKVPVTLTLDNY  796
NTDB id 355 BSU 27480 NP 390625.1            ITRAKKFLILCGEEEALEWGVKNNDATVRQTSLKNRLSVQVEEMDAEL................EALQKEL.......PF  775
consensus                                    !!!!! !!!!!!!**   *!    !   !*!!!  !!!*        !****************  *   **********

logo
NTDB id 174389 ATY39 RS04010 WP 066786171.1  SGIHPMIGMAGISPYDFMNNEN.  818
NTDB id 355 BSU 27480 NP 390625.1            SVHDANIGMEGITPFDFMKEEQQ  798
consensus                                    ! *** !!! !!*!*!!!  !**
```

X non conserved

X similar

X $\geq$ 50% conserved